



# THE INSTITUTION OF ENGINEERS MALAYSIA (SARAWAK BRANCH)

*in collaboration with*

**NS BLUESCOPE LYSAGHT SARAWAK**

*presents*

## **STRUCTURAL DECKING: HIGH RISE BUILDINGS AND IBS ADOPTION**

**Date: 16th March 2019**

**Venue: Imperial Hotel, Kuching**

**Time: 8:30am-1:30pm**

**FREE REGISTRATION**

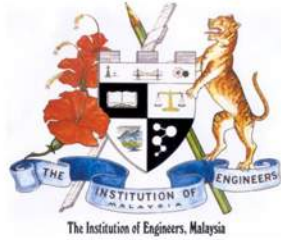
**3.5 CPD**

**(BEM Approved CPD Hours)**

**Ref. No.: IEM19/SWAK/052/S**



**SPEAKER: MS SURAYA JOHARI**  
TECHNICAL & DESIGN MANAGER  
(NS BLUESCOPE LYSAGHT MALAYSIA)



# INTRODUCTION

The evolving construction industry in Malaysia has opened up new horizon and footprint in adoption of structural steel decking for composite concrete slab design in construction for mega high-rise towers and other commercial structures. Under the new Industrial 4.0 evolution, fast and accurate execution with timely deliverance being the main deciding factors for major construction players to adopt and adapt suitable profiles and materials for all new projects.

This is evident for construction of mega iconic skyscrapers using structural steel decking whereby the composite slab able to fast track the construction of multiple levels without waiting for curing period and eliminate the dismantling of formwork. With this concept, the structural steel decking plays a major role to fit in the Industrialised Building Systems (IBS) components criteria as permanent formwork and innovative system. As per government's mandate for both public and private projects of certain values to achieve minimum IBS scoring, the adoption of structural steel decking matches the criteria perfectly and justly.

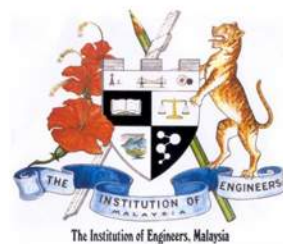
The CPD technical session will primarily focus to discuss on Lysaght Bondek II as the steel structural decking in the composite slab design of Merdeka PNB-118 mega structures.

In addition, the session will discuss on the secondary usage of Lysaght Smartdek as permanent formwork design as replacement to conventional formworks during the construction of The Exchange 106 Tower. The above structural designs are in accordance to the following standards:

1. Formwork Stage (BS5950 Part 4 & 6)
2. Composite Slab Design Stage (BS5950 Part 4 BS8110 Part 1 & 2 BS 4449)
3. Fire Design (BS5950 Part 8 S 476-20 & -21)

As a local construction material supplier, NS BlueScope Lysaght Malaysia been constantly innovating the product offerings to adapt to latest market needs whilst meeting the Construction Industry Transformation Programme (CITP) under CIDB Malaysia initiative.

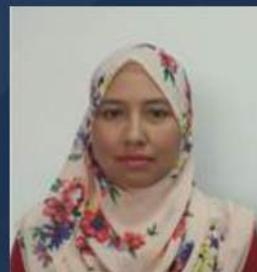




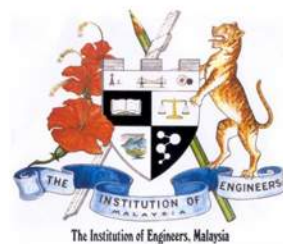
## ABOUT THE SPEAKER

**MS SURAYA JOHARI**

TECHNICAL & DESIGN MANAGER  
(NS BLUESCOPE LYSAGHT MALAYSIA)



Ms. Suraya Johari joined NS BlueScope Lysaght Malaysia Sdn Bhd as Technical & Design Manager reporting directly to the President since January 2018. She was tasked to lead technical team and develop technical roadmap for system improvement and product-portfolio expansion. Ms Suraya has over sixteen (16) years of technical experience, professional leadership and has helmed senior executive roles for 5 years both in technical and operational accountabilities. She comes with thoroughly varied inter industrial and inter departmental experiences as she has held various positions in the construction and education industries throughout her career. She possesses six (6) years of experience working in the education industry as lecturer in technical stream and actively involved in the accreditation process to comply with requirements of Malaysian Qualifications Agency (MQA) for various programs and Engineering Accreditation Council Malaysia (EAC) for engineering programs. Ms. Suraya actively involve as a member of working committee for National Occupational Skill Standard (NOSS) and Construction Industry Standard (CIS) for Construction Industry Development Board Malaysia (CIDB) since year 2009 and knowledgeable in Industrialized Building System (IBS) - lightweight steel framing. She possesses seven (7) years of experience as trainer and invited speaker in regards to construction industry for Public Works Department Malaysia (JKR), Bahagian Pembangunan Kontraktor dan Usahawan (BPKU), Contractor Service Center (PKK), Construction Industry Development Board Malaysia (CIDB) and polytechnics. Ms. Suraya has obtained her Master of Science in Construction Management and Bachelor of Civil Engineering from the Universiti Teknologi Malaysia. Currently she is pursuing her Doctor of Philosophy - Engineering at the same university on research topic: Efficient Post-Disaster Housing Reconstruction using Cold Formed Steel Frame); she inspires and coach team members to innovate new technologies and step changes to achieve the collective objectives by the shareholders and the company.



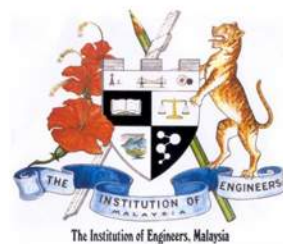
# OBJECTIVE

1. Promote adoption of structural steel decking for composite concrete slab design in construction for mega high-rise towers and other commercial structures.
2. Highlight the benefits of composite slab such as its ability to hasten the construction of multiple levels, minus curing periods and dismantling of formwork.
3. To explain why structural steel decking fits the Industrialised Building Systems (IBS) criteria perfectly as permanent formwork and innovative system.
4. Discuss on the secondary usage of Lysaght Smartdek as permanent formwork design as replacement to conventional formworks

## ***Tentative Programme***

8:30am – 9:00am	Registration
9:00am – 9:15am	Welcoming speech by Mr Lee Tze Hing , General Manager of NS BlueScope Lysaght (Sarawak) Sdn Bhd
9:15am – 10:30am	<b>Session 1:</b> Adoption of structural steel decking for composite concrete slab design in high-rise buildings
10:30am – 10:45am	Tea break
10:45am – 12.45pm	<b>Session 2:</b> Structural steel decking plays a major role to fit in the Industrialized Building System (IBS) components criteria as permanent formwork and innovative system.
12.45 – 1.00pm	Q & A Session
1:00pm – 1.30pm	Certificate collection & Lunch
	End





# REGISTRATION FORM

**Closing Date for Registration: 11<sup>th</sup> March 2019, Monday (not later than 5:00pm)**

To: Secretariat  
The Institution of Engineers Malaysia (Sarawak Branch)  
No. 16, Jalan Bukit Mata Kuching  
93100 Kuching  
Tel: (082) 428 506 Facsimile: (082) 243 718  
E-mail: [iemsarawak@gmail.com](mailto:iemsarawak@gmail.com) Website: [www.iemsarawak.org](http://www.iemsarawak.org)

For the purpose of BEM-approved CPD/PDP hours, all IEM Members must provide their registration number.

No.	Name(s) in CAPITALS	H.p. No.	IEM No.

The Organizer reserves the right to cancel, alter or change the programme due to unforeseen circumstances. Every effort will be made to inform the registered participants of any changes.

Name of Department/Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Tel (O): \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Designation: \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_